## 32-17156: Recombinant human CD117 protein with C-terminal $6 \times \mathrm{His}$ tag

Alternative Name : C-Kit, CD117, MASTC, PBT, SCFR, KIT

## Description

Expression Host : HEK293
The protein has a predicted molecular mass of 56.5 kDa after removal of the signal peptide. The apparent molecular mass of CD117-His is approximately $70-100 \mathrm{kDa}$ due to glycosylation.
This gene encodes a receptor tyrosine kinase. This gene was initially identified as a homolog of the feline sarcoma viral oncogene $v$-kit and is often referred to as proto-oncogene c-Kit. The canonical form of this glycosylated transmembrane protein has an N-terminal extracellular region with five immunoglobulin-like domains, a transmembrane region, and an intracellular tyrosine kinase domain at the C-terminus. Upon activation by its cytokine ligand, stem cell factor (SCF), this protein phosphorylates multiple intracellular proteins that play a role in in the proliferation, differentiation, migration and apoptosis of many cell types and thereby plays an important role in hematopoiesis, stem cell maintenance, gametogenesis, melanogenesis, and in mast cell development, migration and function. This protein can be a membrane-bound or soluble protein. Mutations in this gene are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous leukemia, and piebaldism. Multiple transcript variants encoding different isoforms have been found for this gene.

## Product Info

Amount: $\quad 50 \mu \mathrm{~g}$

## Purification :

Content :
Storage condition :
$50 \mu \mathrm{~g}$
The purity of the protein is greater than $95 \%$ as determined by SDS-PAGE and Coomassie blue staining.
Lyophilized from sterile PBS, pH 7.4. Normally $5 \%-8 \%$ trehalose is added as protectants before lyophilization
Store at $-80^{\circ} \mathrm{C}$ for 12 months (Avoid repeated freezing and thawing)


Figure 1. Human CD117 Protein, His Tag on SDS-PAGE under reducing condition.

